	Application No.	Applicant(s)	
Notice of Allowability	09/490,983	ADACHI ET AL.	(\mathcal{A})
	Examiner	Art Unit	
	Ing-Hour Lin	1725	
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate commit IGHTS. This application is	n this application. If not include unication will be mailed in due	ed course. THIS
1. ☑ This communication is responsive to <u>10/10/03</u> .			
2. ☑ The allowed claim(s) is/are <u>1-3,5-13,30-35,39,41,58-60 and</u>	d 63-68.		
3. A The drawings filed on 13 May 2002 are accepted by the Ex			
 Acknowledgment is made of a claim for foreign priority ur a)	nder 35 U.S.C. § 119(a)-(d)	or (f).	
 Certified copies of the priority documents have 	been received.		
Certified copies of the priority documents have	been received in Application	on No	
Copies of the certified copies of the priority do	cuments have been receive	d in this national stage applicat	ion from the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
 Acknowledgment is made of a claim for domestic priority us reference was included in the first sentence of the specifical 	nder 35 U.S.C. § 119(e) (to	a provisional application) since	a specific
(a) The translation of the foreign language provisional a			
6. Acknowledgment is made of a claim for domestic priority unin the first sentence of the specification or in an Application	nder 35 U.S.C. §§ 120 and/		e was included
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of t	this application. THIS THR	REE-MONTH PERIOD IS NOT	EXTENDABLE
 A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give 	itted. Note the attached EXA es reason(s) why the oath o	AMINER'S AMENDMENT or No r declaration is deficient.	OTICE OF
8. ☐ CORRECTED DRAWINGS (as "replacement sheets") mus (a) ☐ including changes required by the Notice of Draftspers		w (PTO-948) attached	
 1) ☐ hereto or 2) ☐ to Paper No (b) ☐ including changes required by the proposed drawing contents. 	ampation filed	h haa haan annamad haafta ffi	
(c) including changes required by the attached Examiner's			
ldentifying indicia such as the application number (see 37 CFR 1. each sheet, Replacement sheet(s) should be labeled as such in the	84(c)) should be written on the ne margin according to 37 CF	ne drawings in the front (not the FR 1.121(d).	back) of
9. DEPOSIT OF and/or INFORMATION about the deposate the deposate of the depo			lote the
Attachment(s)			
1☐ Notice of References Cited (PTO-892)	5⊡ Notice of Info	ormal Patent Application (PTO-	152)
 2☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No. 1222 	6⊠ Interview Sui	mmary (PTO-413), Paper No. <u>1</u>	222 .
), 7⊠ Examiner's A	Amendment/Comment	
4 Examiner's Comment Regarding Requirement for Deposit of Biological Material	8⊠ Examiner's S 9⊡ Other	Statement of Reasons for Allow	ance

Application/Control Number: 09/490,983

Art Unit: 1725

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Richard Barth on December 22, 2003.

The application has been amended as follows:

IN THE SPECIFICATION

In page 1, line 2, after "1996" inserted was -- and now abandoned--; and line 3, after "1997" inserted was -- and now abandoned--.

IN THE CLAIMS

In claim 11, line 11, after "Y" inserted was--in minutes--; and last line, after "pressure" inserted was --, said alloy in the insulated vessel is cooled to the molding temperature at a cooling rate of 0.01 ° C/s to 3 ° C/s--.

In claim 12, last line, after "pressure" inserted was --, said alloy in the insulated vessel is cooled to the molding temperature at a cooling rate of 0.01 ° C/s to 3 ° C/s--.

Claims 14-29, 36-38, 40, 42-57, 61-62 and 69 were canceled. However, attorney reserved the right to file divisional application.

Art Unit: 1725

Reasons for Allowance

The following is an examiner's statement of reasons for allowance: The prior art of record fails to teach or suggest the combination of steps of shaping a semisolid metal, comprising: maintaining a molten alloy having crystal nuclei in an insulated vessel for a period from 5 second to 60 minutes as said alloy is cooled to a molding temperature at a cooling rate of 0.01 ° C/s to 3 ° C/s thereby crystallizing fine primary spherical crystals in an alloy solution thereof containing a specified liquid fraction; and thereafter feeding said alloy solution into a forming mold for shaping said alloy under pressure. Therefore, the claimed feature is allowable over the art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ing-Hour Lin whose telephone number is (571) 272-1180. The examiner can normally be reached on M-F (8:00-5:30) Second Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Dunn can be reached on (571) 272-1171. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0651.

I-H. Lin Lolld.

December 22, 2003

TOM DUNN

SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 1700